特 許 協 力 条 約

PCT

国際予備審査報告

0

REC'D 15 APR 2004

WIPO PCT

(法第12条、法施行規則第56条) (PCT36条及びPCT規則70)

| 出願人又は代理人 の書類記号 NP-1905W | 今後の手続きについて | 「は、国際予備審査等」 IPEA/4 | 16)を参照すること。 | |
|---|--------------------------|--|-------------------------|-----------|
| 国際出願番号 PCT/JP03/06955 | 国際出願日 (日.月.年) 02. | 06.03 | 優先日 (日.月.年) 03. | 06.02 |
| 国際特許分類(IPC) Int.(| C1. 7 G11B5/ | /73, C03C3/ | /087 | |
| 出願人(氏名又は名称) HOYAを | 朱式会社 | | | |
| 1. 国際予備審査機関が作成したこの 2. この国際予備審査報告は、この表 | | | | 従い送付する。 |
| □ この国際予備審査報告には、 査機関に対してした訂正を含さ (PCT規則70.16及びPCT この附属書類は、全部で | む明細書、請求の範囲 こ実施細則第607号 | 及び/又は図面も添 ≩照) | 基礎とされた及び/又 付されている。 | はこの国際予備審 |
| 3. この国際予備審査報告は、次の内 I × 国際予備審査報告の基礎 | | | | |
| II 優先権 | - | | | |
| Ⅲ Ⅲ 新規性、進歩性又は産乳 | 巻上の利用可能性につい | ハての国際予備審査 | 報告の不作成 | |
| IV 発明の単一性の欠如 | | | | , |
| V × PCT35条(2)に規定 の文献及び説明 VI × ある種の引用文献 | する新規性、進歩性又 | は産業上の利用可能 | 8性についての見解、そ | :れを裏付けるため |
| VII 国際出願の不備 | | | | |
| VII 国際出願に対する意見 | | | | |
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| | | The same state of the same and the same state of | 2. M-vA1 .b. E1 | |
| 国際予備審査の請求書を受理した日 18.11.2003 | | 国際予備審査報告 0 | を作成した日 1.04.2004 | |
| 名称及びあて先 日本国特許庁(IPEA/J) | P) | 特許庁審査官(権 | 限のある職員) | 5D 3045 |
| 郵便番号100-891 | 5 | 橋 均 電話番号 03- | 9憲 3581-1101 | 内線 3550 |

国際予備審査報告

国際出願番号 PCT/JP03/06955

| I. | - | 際予備審査報 | · · | | | |
|----|-----------------|---------------------------------------|--|--|---|-------------|
| 1. | 府 | の国際予備審 答するために PCT規則70.1 | 提出された差し替え用紙 | に基づいて作成され は、この報告書にお | uた。(法第6条(PCT14条)の規定に基づっ Sいて「出願時」とし、本報告書には添付しない。 | く命令に |
| | × | 出願時の国際 | 出題書類 | | · | |
| | | 明細書 明細書 明細書 | 第 第 | ページ、 | 出題時に提出されたもの 国際予備審査の請求書と共に提出されたもの 付の書簡と共に提出さ | れたもの |
| | | 請求の範囲 請求の範囲 請求の範囲 請求の範囲 | 第 | 項、 項、 | 出願時に提出されたもの PCT19条の規定に基づき補正されたもの 国際予備審査の請求書と共に提出されたもの ———— 付の書簡と共に提出さ | れたもの |
| | | 図面 図面 | 第 第 第 | ページ/図、 ページ/図、 ページ/図、 | 出願時に提出されたもの 国際予備審査の請求書と共に提出されたもの | れたもの |
| | | 明細書の配 | 列表の部分 第 列表の部分 第 列表の部分 第 | ページ、 ページ、 | | れたもの |
| 2 | | ・ 上記の出題書 | 頃の言語は、下記に示す場 | 場合を除くほか、こ | の国際出願の言語である。 | |
| | | 上記の啓類は | 、下記の言語である | 語であ | る 。 | ļ |
| 3 | | □ PCT規□ 国際予例 | | 網の言語 PCT規則55.2まク | う翻訳文の言語 とは55.3にいう翻訳文の言語 おり、次の配列表に基づき国際予備審査報告を行 | テった。 |
| | • | □ この国図□ この国図□ 出願後□ 出願後□ 出願後□ | 祭出願に含まれる書面によ 祭出願と共に提出された磁 こ、この国際予備審査(ま こ、この国際予備審査(ま こ、この国際予備審査(ま | る配列表 対気ディスクによる たは調査)機関に たは調査)機関に が出願時におけ | · | を目の陳述 |
| | | ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ | | 10年以来(ノイハッド) | S O RELY VOLCE HOME O COLOR | |
| | 4. [5. [| 明細書開業の範囲開業の範囲開業の範囲によるの画際であるので | 下記の書類が削除された第 第 図面の第 砂備審査報告は、補充欄に その補正がされなかった おける判断の際に考慮しな | ページ 項 へへ :示したように、補ご :ものとして作成し; | -ジ / 図 正が出願時における開示の範囲を越えてされたも た。(P C T 規則70.2(c) この補正を含む差し替 報告に添付する。) | のと認めらえ用紙は上 |
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国際出願番号 PCT/JP03/06955

| ついての法第12条(| PCT35条(2)) に定め | る見解、それを裏付ける |
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| 請求の範囲 | 1-6 | 有 |
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| 請求の範囲 | 1 – 6 | |
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| 請求の範囲 | 1-6 | |
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| 5 1 1 A (B | 木板硝子株式会社) | |
| 全て 全図 (ノ | アミリーほし | |
| 8 7 2 A (日 全文、全図 & U | 本极明于休氏云位) S 6333286 B1 | |
| 36 4 (木一 | ヤ株式会社) | |
| いて限定された | ガラス組成に包含 | されるガラス基板 |
| 起囲1一0に新記載された発明 | 成性、進少性はない は本願発明によっ | ん。 て得られたガラス |
| でう、 | 音を参照してもている。当該請求の範囲1 | に記載されたガラ |
| た組成比のガラ | ス基板であると認 | 疋する。また、4 |
| の組成比で限定しの組成比(特に | ZrOZŁTiÖ | 2) に臨界的意義 |
| | | |
| 25477 (F 1 (I) | 1 17771 | し) |
| 「け ガラス基板 | のヤング率とガフ | スの耐水性(アノ |
| 2載されており、 当該請求の範囲 | 1及び6に新規性 | 、進歩性がない。 |
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国際出願番号 PCT/JP03/06955

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| 茶 審面による開示以外の開示 (PCT規則70.9) ま面による開示以外の開示の種類 警面による開示以外の開示の日付 警面による開示以外の開示に言及し | | | | 優先日(有効な優先権の主張 (日.月.年) |
| でである。 ではよる関示以外の関示の種類 書面による開示以外の関示の日付 書面による開示以外の関示に言及し | | A 31.07.02 | 28. 11. 00 | 15.11.00 |
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補充欄 (いずれかの欄の大きさが足りない場合に使用すること)

第 V 欄の続き

文献5:WO 98/55993 A1 (ホーヤ株式会社)

1998.12.10 全文、全図 & EP 0917135 A1 & US 5491116 A

文献 6: JP 2001-126234 A (日本板硝子株式会社)

2001.05.11 全文、全図 (ファミリーなし) JP 11-11974 A (日本板硝子株式会社) 文献 7:

1999.01.19 請求項1 (ファミリーなし) JP 11-314931 A (日本板硝子株式会社)

文献 8:JP

1999.11.16 全文、全図 (ファミリーなし) 文献9:JP 2000-128583 A (石塚硝子株式会社) 2000.05.09 全文、全図 (ファミリーなし)

文献10: JP 2000-268349 A (旭テクノグラス株式会社) 2000. 09. 29 全文、全図 (ファミリーなし)

文献5及び6には、本願発明と同程度の組成比からなるガラス基板が記載されてい

文献7-10には耐水性を示すガラス基板がそれぞれ記載されている。 そじて、文献1-3,5,6には本願発明と同一又は同程度の組成比からなるガラ ス基板が開示され、また上記のように本願発明において限定されたガラス基板の組成 比に臨界的意義も認められず、一方ガラス基板のヤング率と耐水性を高めるという課題は文献4のように周知であり、耐水性を高める技術も文献7-10のように周知で あるので、本願の請求の範囲1-6に記載された発明は文献1-10から当業者が容易に想到しうるものである。





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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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| Anslation internation | _ | | TION REPORT |
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| | (PCT Article 36 an | | 1 C. Tutomostione |
| Applicant's or agent's file reference NP-1905W | FOR FURTHER ACTION | See Notific Preliminary | cation of Transmittal of Internationa Examination Report (Form PCT/IPEA/416) |
| International application No. PCT/JP2003/006955 | International filing date (day 02 June 2003 (02.0 | | Priority date (day/month/year) 03 June 2002 (03.06.2002) |
| International Patent Classification (IPC) or n G11B 5/73, C03C 3/087 | national classification and IPC | | |
| Applicant | HOYA CORPOR | ATION | |
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| 70.16 and Section 607 of th | total of shee | under the 2 0 2 7 | cations made before this Authority (see Ri |
| 70.16 and Section 607 of the These annexes consist of a 3. This report contains indications re I Basis of the report | total of shee | under the 2 0 2 7 | |
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| 70.16 and Section 607 of the These annexes consist of a 3. This report contains indications re I Basis of the report II Priority III Non-establishment IV Lack of unity of in | total ofshee elating to the following items: t tt | evelty, inventive | |
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Internation Dication No.

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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| Vith regard to | to the elements of the international application:* |
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| the the or 5 3. With reg preliminar cor file fur | language of a translation furnished for the purposes of international search (under Rule 23.1(b)). language of publication of the international application (under Rule 48.3(b)). language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and 55.3). gard to any nucleotide and/or amino acid sequence disclosed in the international application, the international representation was carried out on the basis of the sequence listing: Intained in the international application in written form. The detection of the purposes of international preliminary examination (under Rule 23.1(b)). The sequence disclosed in the international application, the international application in written form. The sequence listing does not go beyond the disclosure in the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the statement that the subsequently furnished written sequence listing the sequence |
| The int | ternational application as filed has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing have been furnished. |
| 4. The | ternational application as filed has been turnished. The statement that the information recorded in computer readable form is identical to the written sequence listing is the statement. |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International Cation No.
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YES

NO

1-6

| V. | Reasoned statement under Artic citations and explanations support | ele 35(2) with regard to novelty, in the such statement | inventive step or industrial appli | cability; |
|----|---|---|------------------------------------|-----------|
| 1. | Statement | | | |
| | Novelty (N) | Claims | | YES |
| | 11010119 (11) | Claims | 1-6 | NO |
| | Y | Claims | | YES |
| | Inventive step (IS) | Claims | 1-6 | NO NO |

Citations and explanations

Claims 1 to 6

Industrial applicability (IA)

Document 1: JP 2000-159544 A (Nippon Sheet Glass Co., Ltd.), 13 June 2000, entire text; all drawings (Family: none)

Claims

Claims

Document 2: JP 2000-203872 A (Nippon Sheet Glass Co., Ltd.), 25 July 2000, entire text; all drawings & US 6333286 B1

Document 3: JP 2001-76336 A (Hoya Corporation), 23 March 2001, entire text; all drawings (Family: none)

Documents 1 to 3 disclose a glass substrate comprising the glass composition delimited in the invention of this application, therefore the invention set forth in claims 1 to 6 lacks novelty and does not involve an inventive step.

The invention set forth in claim 1 of this application merely delimits the state of the glass substrate obtained by the invention of this application, and it is impossible to assume other composition ratios and production methods which would satisfy that state in the light of the description of this application, therefore the glass substrate set forth in claim 1 is understood to be the glass substrate with the composition ratio described in claim 3. In addition, claim 3 of this

application delimits the composition ratio of a glass substrate, but in the light of the comparative examples and embodiments of the description of this application, their respective composition ratios (especially ZrO2 and TiO2) are not acknowledged to be critically significant.

Document 4: WO 02/04371 A1 (Hitachi, Ltd.), 17 January 2002, claims 10 and 11 (Family: none)

Document 4 (claims 10 and 11) discloses the Young's modulus of a glass substrate and the water resistance of glass (the amount of alkali dissolved out is low), and the invention set forth in said claims is effectively the same as the invention described in claims 1 to 6 of this application, and the invention set forth in claims 1 and 6 of this application lacks novelty and does not involve an inventive step.

- Document 5: WO 98/55993 Al (Hoya Corporation), 10

 December 1998, entire text; all drawings & EP

 0917135 Al & US 5491116 A
- Document 6: JP 2001-126234 A (Nippon Sheet Glass Co.,
 Ltd.), 11 May 2001, entire text; all drawings
 (Family: none)
- Document 7: JP 11-11974 A (Nippon Sheet Glass Co., Ltd.), 19 January 1999, claim 1 (Family: none)
- Document 8: JP 11-314931 A (Nippon Sheet Glass Co., Ltd.), 16 November 1999, entire text; all drawings (Family: none)
- Document 9: JP 2000-128583 A (Ishizuka Glass Co., Ltd.),
 9 May 2000, entire text; all drawings
 (Family: none)
- Document 10: JP 2000-268349 A (Asahi Techno Glass

 Kabushiki Kaisha), 29 September 2000, entire

 text; all drawings (Family: none)

Documents 5 and 6 set forth a glass substrate with a

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Internation No. PCT/JP 03/06955

similar composition ratio to that of the invention of this application.

Documents 7 to 10 disclose glass substrates with water resistant properties.

In addition, documents 1 to 3, 5 and 6 disclose a glass substrate having the same or similar composition ratio as the invention of this application, and the composition ratio of the glass substrate delimited in the invention of this application lacks critical significance, as described above, while the issue of increasing the Young's modulus and water resistance of a glass substrate is known, as described in document 4, and the technique of improving water resistance is known, as described in documents 7 to 10, hence it would be easy for a person skilled in the art to conceive of the invention set forth in claims 1 to 6 of this application in the light of documents 1 to 10.



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| rtain documents cited | | | | | |
| tain published documents | (Rule 70.10) | | | | |
| Application No. Patent No. | Publication (day/month | n date h/year) | Filing date (day/month/year | <u>)</u> | Priority date (valid claim) (day/month/year) |
| лр 2002-211946 A | 31 July 2002 | (31.07.2002) | 28 November 2000 (2 | 28.11.2000) | 15 November 2000 (15.11.2 |
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